

Notice of Allowability

Application No.

10/646,847

Examiner

LAM S. NGUYEN

Applicant(s)

MASUDA ET AL.

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 08/09/2005.
2. ☒ The allowed claim(s) is/are 20,22 and 24-26.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☒ Certified copies of the priority documents have been received in Application No. 10/059,440.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date <u>10/11/2005</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark Williamson on 10/12/2005.

The application has been amended as follows:

In the specification: On page 1, replaced the following paragraph "This application is a division of Application No. 10/059,440 filed January 31, 2002." as follows:

-- This application is a division of Application No. 10/059,440 filed January 31, 2002, now issued Patent No.6652057. --

In the claims:

Claim 26: Replaced as follows:

-- 26. (Currently amended) A printing apparatus which performs printing by scanning a carriage unit, capable of holding a printhead having a plurality of heater resistances, over a print medium based on information transmitted by an external apparatus,

the printhead comprising:

a resistance which corresponds to a property of the plurality of heater resistances for printing:

said printing apparatus comprising:

a voltage control unit for controlling the printhead and comprising voltage

Art Unit: 2853

generation means for adjusting a voltage generated in the printing apparatus to drive the printhead, a voltage converter for providing a voltage to the heater resistances, a PWM controller for controlling a pulse signal inputted into said voltage converter in order to adjust the voltage provided by said voltage converter, first internal resistances for dividing the voltage provided by said voltage converter into a first divided voltage, a second internal resistance, connected with said resistance, for dividing a predetermined voltage into a second divided voltage, and a comparison circuit for comparing the first divided voltage with the second divided voltage, and outputting the comparison result to said PWM controller,

wherein the second internal resistance and said resistance are connected in series, said voltage generation means adjusts the voltage generated in the printing apparatus based on a voltage divided by the second internal resistance and said resistance, and

wherein said voltage control unit is provided on the carriage unit. --

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The reasons for allowance of claims 20 and 22 were indicated in the office action mailed on 06/01/2005 as regarding to the allowability of the original claims 21 and 23, whose allowable limitations are now incorporated into claims 20 and 22, respectively. The reasons for allowance of claim 26 is that the claim is now rewritten in the independent form including the allowable feature also indicated in the mentioned above office action.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Art Unit: 2853

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAM S. NGUYEN whose telephone number is (571)272-2151.

The examiner can normally be reached on 7:00AM - 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, STEPHEN D. MEIER can be reached on (571)272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LN
10/19/2005

Hai Chi Pham
HAI PHAM
PRIMARY EXAMINER